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NPIC/TDS/D-813-67

20 April 1967

MEMORANDUM FOR THE RECORD

SUBJECT : Visit [REDACTED]

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- REFERENCES:
- a. PAR-243 Prototype Briefing Print Enlarger (BPE).
 - b. PAR-244 Spare Parts for Roller Transport Processors.
 - c. PAR-245 High Magnification Lens set, for BPE.
 - d. Joint Procurement of seven BPE's under Contract [REDACTED]

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2. PAR-243 Prototype Briefing Print Enlarger. This item was discussed with [REDACTED]

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[REDACTED] The prototype enlarger has been moved from [REDACTED] where engineering and operation tests will be performed. Progress on the refinement and assembly of the Prototype has been very good since the last visit to [REDACTED] in February 1967. All parts have been obtained and assembled, with the exception of some minor electrical parts. All of the improvements discussed in paragraph 6 of the 17 February 1967 report have been accomplished with the exception of the additional hand-grips on the condensor assemblies. The type of hand-grips considered at that time could not be installed without extensive alteration of the lamp house and additionally, the type considered would prevent the condensor assembly from fitting in the storage cabinets. The [REDACTED] representatives were committed to supplying the condensor assemblies with a single hand-grip for insertion and removal of the assembly in the lamp house and resisted very strongly to installing a second hand-grip. The condensor assembly weighs about ten pounds. It is costly, fragile, awkward to handle with one hand and there is danger of accidental droppage. After much discussion [REDACTED] was finally persuaded to provide two hand grips on each condensor assembly without extensive alteration. They will be installed for our next inspection of the equipment in May. A problem in transportation and

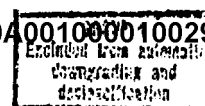
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Declass Review by NGA.

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installation developed during the review of the Prototype. The electrical console, which is 15 inches deep, completely envelopes the one end of the enlarger, extending to within one inch of the floor. Lifting this end of the enlarger is therefore very difficult. The overall length of the enlarger is 9 feet 10 1/4 inches including the console, and will not fit inside the elevators at [REDACTED]. When the installation data sheets were supplied in December 1966, it was the intention of Logistics to stand the enlarger on end in the elevator. This is not possible because of the resultant changes in the direction of stresses. The current plan is to construct a cradle and sling the enlarger under the elevator for hoisting to the second floor. The cradle will be used also for transportation. It is estimated that the total cost for installing the printer in this manner will not exceed [REDACTED]. The only alternative to this plan is to disconnect all wiring from the printer and remove the electrical console. This would cost several times the above amount and creates an element of error in re-wiring. Quick disconnects will be designed into the remaining seven printers to permit ready removal of the electrical console.

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In an attempt to provide additional shock absorbing, the printer was equipped with soft rubber tired casters. These casters flatten under the weight of the printer, making it difficult to move. They will be replaced by a more sturdy caster to provide ease of movement.

The Prototype Printer will be identified by the serial number 001 and the follow-on printers will be numbered 101 through 107. The operation and maintenance manual (ten to be supplied with the Prototype) will contain folded assembly drawings (duplicates of existing drawings) as an addendum. When the manuals are printed for the follow-on printers, new manuals containing reduced drawings in bound form will be supplied to replace those furnished with the Prototype.

The scheduled delivery date for the Prototype is the beginning of July 1967. However, considering the present status of assembly and debugging there is a possibility of earlier delivery in June 1967.

3. PAR-244 Spare Parts for Roller Transport Processors. About 25% of the ordered parts have been delivered. Fabrication is on schedule and a second parts order is expected during April 1967. During this visit, several parts were obtained which were not included in the formal parts order. These were:

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a. Approximately 3 feet of 1/8 inch stainless steel key stock needed for securing drive gears to driven shafts.

b. One dozen each of two sizes of circular gaskets for chemical solution filters.

c. One dryer belt drive pulley which [REDACTED] had borrowed from our spares for repairs performed under PAR-245.

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4. PAR-245 High Magnification Lens Sets for BPE. Drawings have been released for fabrication of objective lens mounts and condensor assemblies. The lens focusing mounts required for the high magnification lenses are identical to the "E" & "F" mounts used with the 40X to 60X lenses of the Prototype Printer, therefore, focusing mounts for the high magnification Prototype lenses will be fabricated along with the lens mounts for the seven follow-on printers. These mounts are expected to be available in June 1967.

The two high magnification lenses (60X to 90X and 95X to 150X) are scheduled to be delivered in their barrel mounts by 1 May 1967. They will then be mounted in the "E" & "F" mounts of the "Bread-board" Printer for engineering testing during May 1967. If no difficulties develop during the engineering testing, the lenses will be ready for final testing in their own mounts during July 1967, which will be performed on the Prototype Printer [REDACTED]

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Two additional file cabinets with fitted drawers will be furnished for storing these lenses and their condensers.

A determination will be made at the forthcoming May meeting on the Joint Services Procurement of the BPE, whether any additional procurement of these lenses should be initiated at that time.

5. Joint Procurement of BPE under contract [REDACTED] Most of the discussion regarding this contract concerned the matter of spare parts. Two exceptions were: time and cost for delivery of additional printers, and establishment of a suitable date for the next meeting of the Joint Services representatives. The estimated cost of additional printers in small numbers (1-5) is around [REDACTED] each, with delivery in about 11 months after signing of contract, (tests of Prototype to be completed prior to re-orders).

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The week beginning 15 May 1967 was selected for the next meeting of the Joint Services Group. It is expected that [REDACTED] testing of the Prototype Printer will be nearly completed by that time.

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[REDACTED] opened the spare parts discussion by submitting four new parts lists: one for "Fly-Away" spares for the easel Photometer; one for "Fly-Away" spares for the Printer (these parts will accompany the printers at no additional contract cost); one for depot spares for the easel photometer; and one for depot spares for the printer. Commercially available, unaltered items are indicated on these lists by the absence of parts numbers. An attempt was made to get some idea of spare parts costs. Due to the fact that no firm figures as to quantities can be stated at this time, parts costs must also be very vague. The best information available is that each set of depot spares as listed would be about [REDACTED] (this is to serve (1) Printer for (1) year). Should several sets be ordered at one time the cost per set would be less, since 60% of the cost is in machine set-up time. There was considerable discussion regarding the manner of stocking and the distribution of spare parts. Since none of the Joint Agencies have formulated a policy regarding either of these questions [REDACTED] agreed to prepare another group of spare parts lists based on servicing either one, two, three, or six printers from a single depot. These new lists will be supplied NPIC by 1 May 1967 for distribution to the other services prior to the scheduled May meeting.

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The subject of operation and maintenance manuals was discussed. Both operation and maintenance will be covered in a single manual. It was decided to supply four manuals with each of the 7 printers. The next Joint meeting of the liaison representatives is scheduled for the week of 15 May, to start on that date and continue to 18 May, if necessary so each representative will have an opportunity to manipulate and inspect the Prototype Printer.

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[REDACTED]
Support Systems Branch, DS/TDS

Distribution:

Original - Route & File

1 - Navy

1 - [REDACTED]

1 - [REDACTED]

2 - NPIC/TDS/DS

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